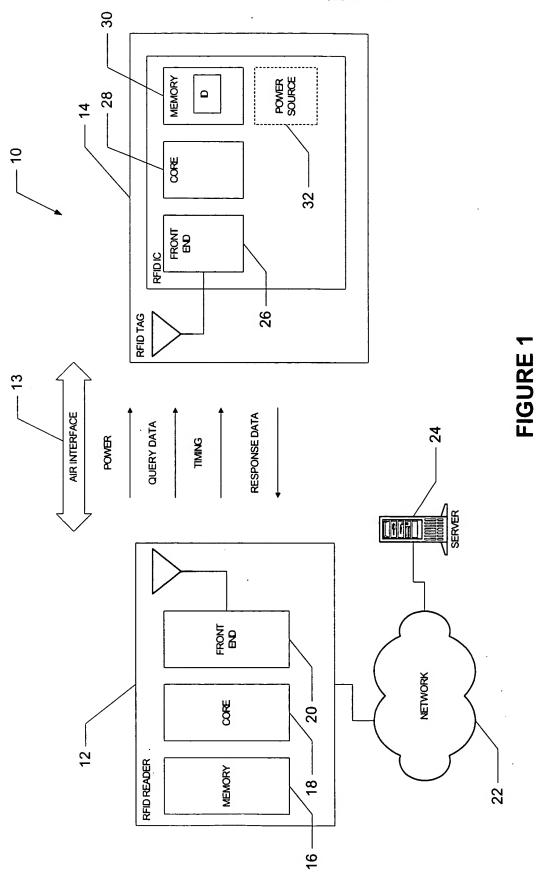
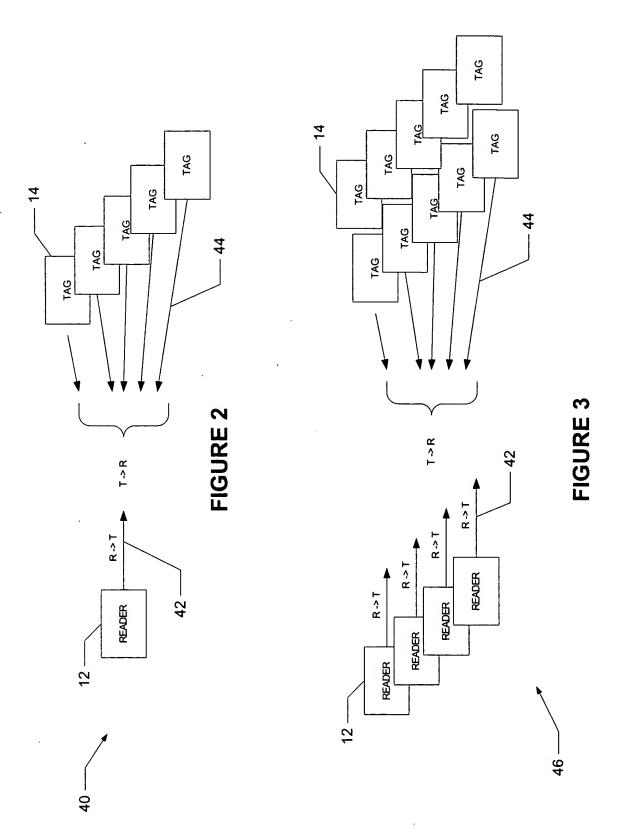
Blakely, Sokoloff, Taylor & Zafman LLP (408) 947-8200
Title: Method and Apparatus to Configure an RFID System to be
Adaptable to a Plurality of Environmental Conditions
1st Named Inventor: Christopher J. Diorio
Express Mail No.: EV439338166US Docket No.: 6928P004
Sheet: 1 of 14

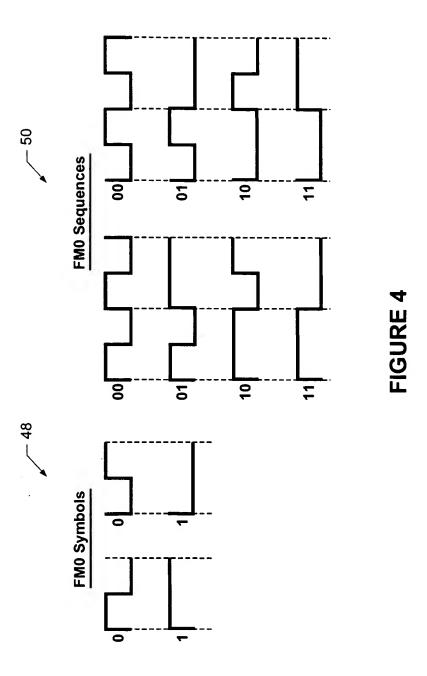


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Blakely, Sokoloff, Taylor & Zafman LLP (408) 947 Title: Method and Apparatus to Configure an RFID System to be (408) 947-8200 Adaptable to a Plurality of Environmental Conditions 1st Named Inventor: Christopher J. Diorio Express Mail No.: EV439338166US Sheet: 4 of 14 Docket No.: 6928P004 FIGURE 5 871 870 54 869 868 Spectrum Frequency (MHz) 9 -640 kHz -320 kHz-160 kHz 0 kHz 160 kHz 320 kHz 640 kHz 867 Bit Rate = 80 kbps 250 kHz 998 56 -Channel 865 -250 kHz 864 --- TAG backscatter 863 ----Reader

862

52

Backscatter PSD Mask 40 kbps (-20 dBm)

Backscatter PSD with EN302 208 Spectral Mask

160 kbps (-20 dBm)

-30

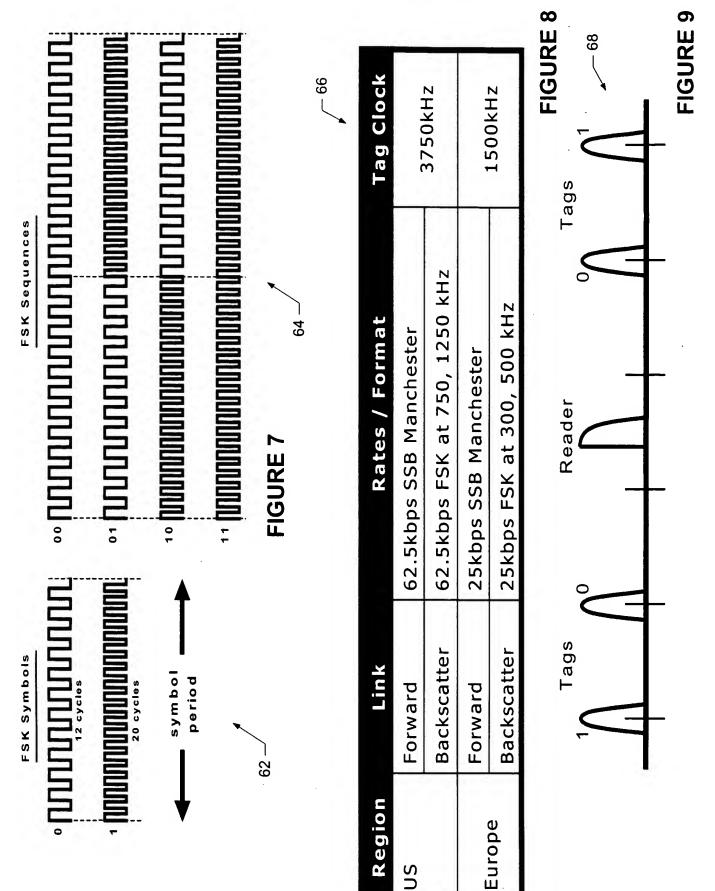
**B2D (qBm/100KHz)** 

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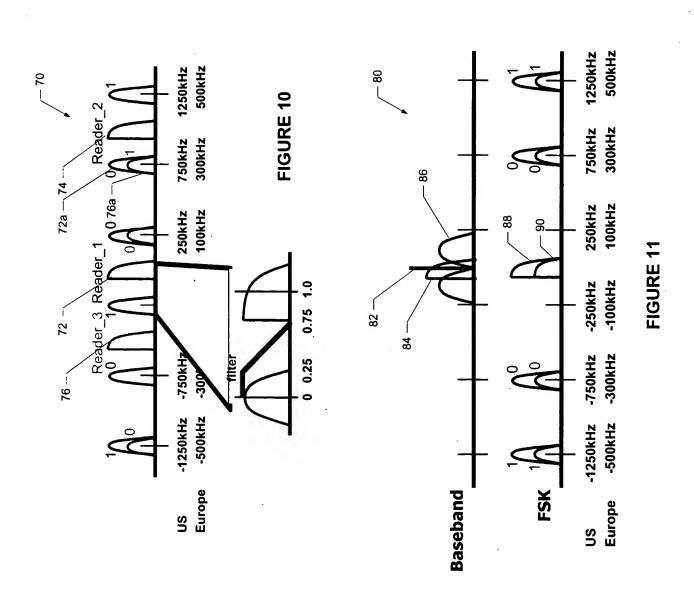
Blakely, Sokoloff, Taylor & Zafman LLP (408) 947-8200 Title: Method and Apparatus to Configure an RFID System to be Adaptable to a Plurality of Environmental Conditions

1st Named Inventor: Christopher J. Diorio

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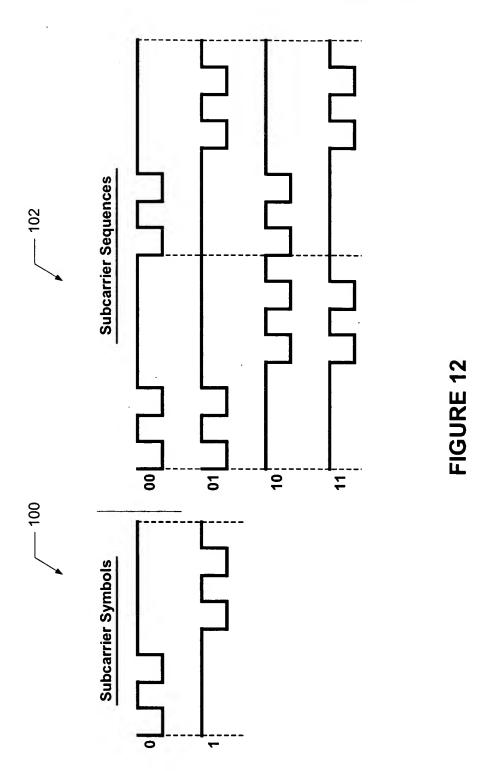
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Express Mail No.: EV439338166US Docket No.: 6928

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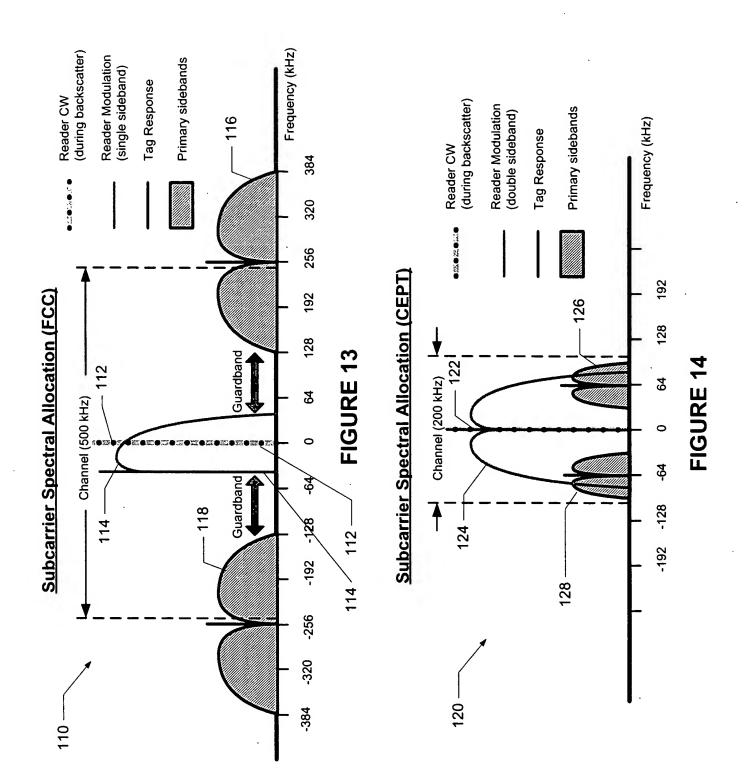


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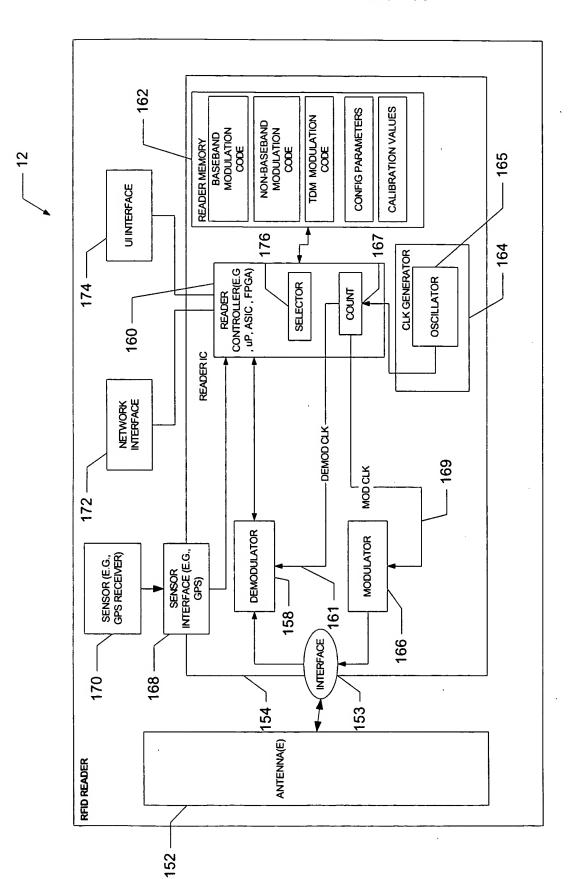
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Adaptable to a Plurality of Environmental Conditions
1st Named Inventor: Christopher J. Diorio Express Mail No.: EV439338166US Docket No.: 6928P004 Sheet: 9 of 14 FIGURE 16 frequency (kHz) **FIGURE 15 750kHz** 153 151 Reader\_2 132 500 500 250kHz 142 148 150 256 256 Reader\_1 0 Filter -250kHz -256 -750kHz Reader\_3 -500 Subcarrier (US) **Baseband** 140

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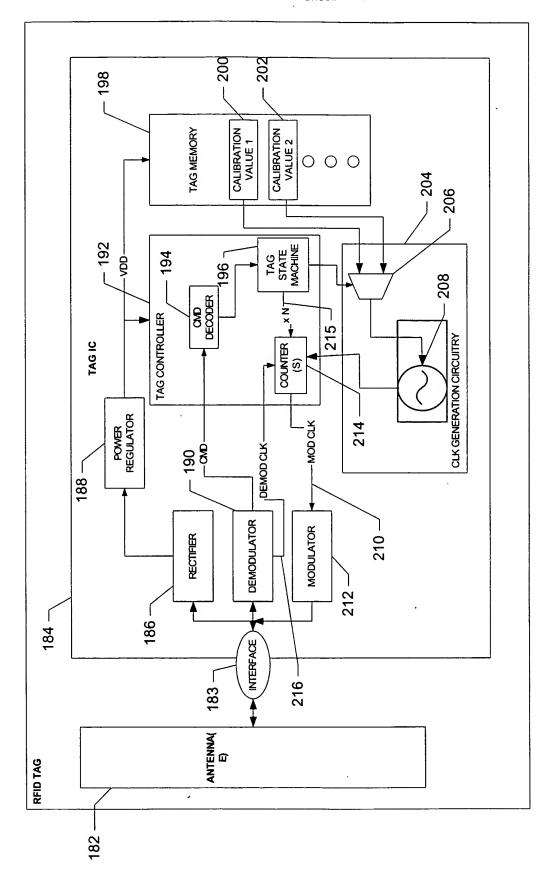


**FIGURE 17** 

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## FIGURE 18

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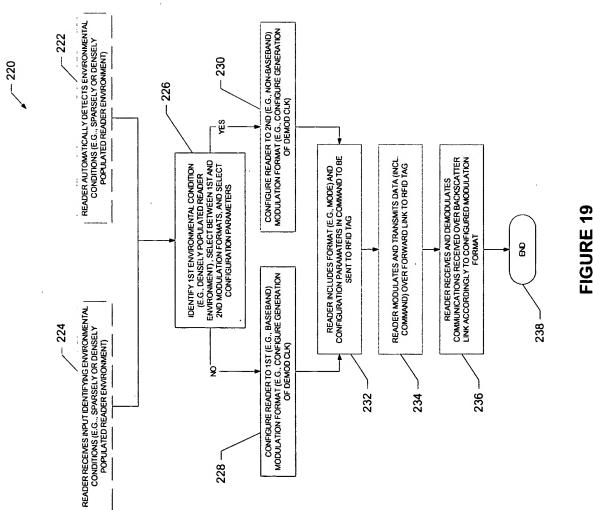
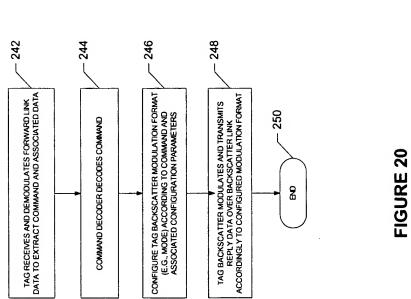


FIGURE 19

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